

# Minneapolis Water Works

## Monthly Plant Effluent Water Analysis for:

### May 2015

#### Physical and Chemical Water Quality

	<u>Plant Effluent Average Value</u>
Temperature, River Water Average (°C)	17.2
Total Organic Carbon (ppm* as C)	3.42
Total Dissolved Solids (ppm)	143
Turbidity (NTU)	0.06
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	36
Ammonia Nitrogen (ppm as N)	0.88
Chlorine Residual (ppm Cl as Cl <sub>2</sub> )	3.7
Fluoride-F (ppm as F)	0.97
pH	8.94
Nitrate - NO <sub>3</sub> (ppm as N)	0.42
Nitrite - NO <sub>2</sub> (ppm as N)	0.017
Phosphate-PO <sub>4</sub> (ppm as PO <sub>4</sub> )	0.92
Sulfate - SO <sub>4</sub> (ppm as SO <sub>4</sub> )	25.8
Total Hardness (grains per gallon) EDTA method	4.1
Total Hardness (ppm as CaCO <sub>3</sub> ) EDTA method	70

#### Chemical Water Quality - Inorganic Metals

<u>Chemical Element</u>	<u>Plant Effluent Average Value</u>
Aluminum-Al (ppm as Al)	0.02
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	25.4
Chloride-Cl (ppm as Cl)	26.0
Chromium (ppm as Cr)	<0.01
Copper-Cu (ppm as Cu)	<0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	1.66
Manganese-Mn (ppm as Mn)	<0.01
Silica-Si (ppm as Si)	6.13
Sodium-Na (ppm as Na)	12.0
Zinc-Zn (ppm as Zn)	Not Detected

\*ppm = parts per million